

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-214

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1999 model-year Navistar International Transportation Corporation diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

| <u>Engine Family</u> | <u>Engine Displacement<br/>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control<br/>Systems and Special Features</u> |
|----------------------|--|--|
| XNVXH0444ANA         | 7.3 (444)  | Turbocharger<br>Charge Air Cooler<br>Engine Control Module       |

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

| <u>Total<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Particulates</u> |
|-------------------------------|----------------------------|----------------------------|---------------------|
| 1.3                           | 15.5                       | 4.0                        | 0.10                |

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

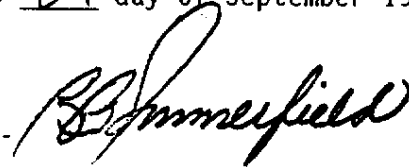
| <u>Total<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Particulates</u> |
|-------------------------------|----------------------------|----------------------------|---------------------|
| 0.1                           | 1.5                        | 4.0                        | 0.10                |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 24<sup>th</sup> day of September 1998.

A handwritten signature in black ink, appearing to read "R. B. Summerfield". The signature is fluid and cursive, with a large loop at the end.

R. B. Summerfield, Chief  
Mobile Source Operations Division

# LARGE ENGINE MODEL SUMMARY

7/28/98

Manufacturer: **Navistar E.O.#A-4-214**

Process Code: **New Submission**

EPA Engine Family: **XNVXH0444ANA**

Manufacturer Family Name: **T444E**

| 1.Engine Code | 2.Engine Model | 3.BHP@RPM<br>(SAE Gross) | 4.Fuel Rate:<br>mm/stroke @ peak HP<br>(for diesel only) | 5.Fuel Rate:<br>(lbs/hr) @ peak HP<br>(for diesels only) | 6.Torque @ RPM<br>(SEA Gross) | 7.Fuel Rate:<br>mm/stroke@peak<br>torque | 8.Fuel Rate:<br>(lbs/hr)@peak torque | 9.Emission Control<br>Device Per SAE J1930 |
|---------------|----------------|--------------------------|--|--|-------------------------------|--|--------------------------------------|--|
| B210          | B210           | 210@2400                 | 79.2   | 84.9   | 485@1500                      | 74.5                                     | 49.9                                 | B,TAA,ECM                                  |
| B190          | B190           | 190@2300                 | 72.7   | 74.7   | 485@1500                      | 75.4                                     | 50.5                                 | B,TAA,ECM                                  |
| B175          | B175           | 180@2200                 | 71.6   | 70.3   | 430@1500                      | 66.6                                     | 44.6                                 | B,TAA,ECM                                  |